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Education

- Ph.D., Engineering - *Columbia University*
- M.Phil., Engineering - *Columbia University*
- M.S., Engineering - *Columbia University*
- B.S., Engineering - *Cairo University*

Academic and Professional Leadership

- Vice-Chancellor for Research & Collaborations, Rutgers University-Newark (2014-present), Rutgers University
- Founding Director of the Rutgers Institute for Data Science, Learning, and Applications (I-DSLAs) (2014-present), Rutgers University
- Founder and Director of the Rutgers Center for Information Management, Integration and Connectivity (CIMIC), a university research center (1996-Present), Rutgers University
- Co-founder and Director of the Meadowlands Environmental Research Institute (MERI) (1998-2006), Rutgers University
- Chair of the MS/CIS Department at Rutgers University (1992-1996), Rutgers University
- Member of the International Advisory Board, Institute of Public Safety Research, Tsinghua University, China (2013-present)

Faculty Positions

- 1975-present Rutgers University
 - 2012-Present Distinguished Professor of Computer & Information Systems
 - 1991-2012 Professor of Computer & Information Systems
 - 1982-1991 Associate Professor of Computer & Information Systems
 - 1975-1982 Assistant Professor of Computer & Information Systems
- 1996-1997 Visiting Professor, Columbia University
- 3/84-7/84 Visiting Professor, Technical University of Eindhoven, The Netherlands

Government Experience

- 3/30/2009-01/31/2013 IPA Assignment - Science & Technology Directorate, US Department of Homeland Security, Washington, DC
Fellow, Senior Program Manager and Branch Chief
 - Hold active TS-SCI security clearance and an active COTR certificate.
 - Award: "Honorable Mention for the 2010 Under-Secretary's Award for Science and Technology", US Department of Homeland Security, Science & Technology Directorate
 - Duties include:

- a. Mentor a group of physical/computer scientists, engineers, and program managers
- b. Program Manager of “Modeling, Simulation, and Analysis”
- c. Initiative Lead, “Cyber-physical Systems Security” – a new initiative
- d. Technical lead of the “Unified Incident Command Decision Support” (UICDS) Program
- e. Member of the Healthcare and Public Health Sector R&D Joint Advisory Working Group; Chair of the Medical Supply Chain R&D Subgroup
- f. Representing the S&T Division at the Network and Information Technology R&D (NITRD), National Coordination Office
- Program Committee Assignments:
 - a. Program Chair, “Analytic Capability Development” workshop, Sponsored by Science & Technology Directorate, US DHS, February 2011
 - b. Program Chair, “Grand Challenges in Modeling, Simulation, and Analysis for Homeland Security (MSAHS-2010), Sponsored by Science & Technology Directorate, US DHS, March, 2010
 - c. Program Chair, “Emergency Management: Incident, Resource, and Supply Chain Management” workshop, Sponsored by Science & Technology Directorate, US DHS, November 2009
 - d. Program Chair, “Future Directions in Cyber-physical Systems Security” workshop, Sponsored by Science & Technology Directorate, US DHS, USAF, DOD, NIST, and DOE, July 2009
 - e. Program Chair, “Future Directions in Critical Infrastructure Modeling and Simulation” workshop, Sponsored by Science & Technology Directorate, US DHS, October 2008
- Published Agency Reports:
 - a. Contributor to "SUPPLEMENT TO THE PRESIDENT'S BUDGET FOR FISCAL YEAR 2012," Network and Information Technology Research and Development, February 2011, <http://www.nitrd.gov/pubs/2012supplement/FY12NITRDSup-plement.pdf>
 - b. Contributor to "SUPPLEMENT TO THE PRESIDENT'S BUDGET FOR FISCAL YEAR 2011," Network and Information Technology Research and Development, February 2010, <http://www.nitrd.gov/pubs/2011supplement/FY11NITRDSup-FINAL-Web.pdf>
 - c. Nabil Adam, Christopher Doyle, Lawrence Skelly, “Emergency Management: Incident, Resource, and Supply Chain Management,” June 2010
 - d. Nabil Adam, “Future Directions in Cyber-physical Systems Security,” Homeland Security Science & Technology, January 2010
 - e. Nabil Adam, “Future Directions in Critical Infrastructure Modeling and Simulation,” Homeland Security Science & Technology, December 2008
- 1994-1998 The NASA Center of Excellence in Space Data and Information Sciences (CESDIS), NASA Goddard Space Flight Center, Greenbelt, MD. CESDIS, an institute of Universities Space Research Association, established by the National Academy of Sciences, with the goal of bringing together

computer scientists from leading universities, industry, and government laboratories to conduct computer science research applicable to space and earth sciences.

- Research Fellow
 - Took part in several initiatives including: Management of the Largest Unclassified Archive in the World; Data Warehousing/Mining of Earth Observing System Data and Information System (EOSDIS); Global Legal Information Network (GLIN); The NASA Solutions for Enterprise-Wide Procurement (SEWP); Mass Storage Management; Geodata Modeling and Query in GIS.
 - Participated in commercialization of Linux software, now Red Hat
 - Served as a member of a scientific/management team to establish a commercial arm for the Universities Space Research Association.
- 2000-2005 Member, Science Council of the Research Institute for Advanced Computer Science, NASA Ames.
- **Service to New Jersey State Government**
Appointed by the Executive Director of the New Jersey Commission of Science and Technology to serve as a member of the "Working Group of Logistics," 1986-1989.

Industry Experience

- 2004-present Founding member of the consortium for System of Systems Security (SOSSEC) and member of the Board of Directors of the SOSSEC, Inc.
- 2004-2005 Visiting Scholar
SAP Research Center
Palo Alto, CA
- 1988-1994 Consultant to Operations and Engineering Department and to Corporate Education Department
International Paper, New York, NY

Editorial Appointments

- Co-founder and Executive-editor-in-chief, the International Journal of Digital Libraries, Springer Verlag, 1995-Present.
- Member of the Editorial Board of the Journal of Electronic Commerce, 1996-Present.
- Member of the Editorial Board of the Journal of Management Information Systems, 1982-Present.
- Member of the Editorial Board of the Journal of Business Information Systems, Springer Verlag, 2000-Present.
- General Chair of the NSF workshop on Big Data Applications in Biomedical and Health Sciences, 2016
- General Chair of the ACM/IEEE Joint Conference on Digital Libraries (JCDL 2016), 2016.

- General Co-Chair of the IEEE International Conference on Data Engineering (ICDE 2012), 2012.
- General Chair of the Homeland Security Conference, 2012 Autumn Simulation Multiconference, 2012.
- General Chair of the Military Modeling & Simulation Symposium, 2012 Spring Simulation Multiconference, 2012.
- Co-founder and past chair of the IEEE Computer Society Technical Committee on Digital Libraries, 1997- 2001. And current member of the Executive Board, 2001-present.
- Vice General Chair, The ACM SIGMOD/PODS 2005 Conference,
- Member of the Editorial Board of the Journal of Electronic Commerce Research and Applications, Elsevier, 2002-2005.
- Member of the Steering Committee of the ACM, IEEE Joint Conference on Digital Libraries (JCDL), 2001-2005.
- Editor, Knowledge and Information Systems: An International Journal, Springer Verlag, 1998-2001.
- General co-chair of the 1999 IEEE International Conference on Advances in Digital Libraries (IEEE ADL'99), May 1999.
- Co-Chair, Advisory Board of the IEEE Engineering in Medicine and Biology Society, Information Technology Applications in Biomedicine (ITAB '98).
- General chair of the 1997 IEEE International Conference on Advances in Digital Libraries (IEEE ADL'97), May 1997.
- Co-Chair Working Group on Electronic Commerce/Digital Libraries, part of the Workshop on Strategic Directions in Computing Research, MIT, June 1996.
- Program chair of the 1996 Forum on Research and Technology Advances in Digital Libraries (ADL'96), May 1996.
- Program co-chair of the 1995 Forum on Research and Technology Advances in Digital Libraries (ADL'95), May 1995.
- Program-Chair of the Third International Conference on Information and Knowledge Management, November 1994.
- Program co-chair of the 1994 Workshop on Digital Libraries: Current Issues, May 1994.
- Vice-Chair of the Second International Conference on Information and Knowledge Management, 1993.
- Editor, Journal of Productivity Analysis, 1987-1992.
- Conference Committee Member of the 12th Annual International Conference on Information Systems, 1991.
- Elected as Vice Chairman for the National Special Interest Group on Simulation of the ACM, 1981-1983.

National and International Keynote Talks

Invited as a keynote speaker and a lecturer at several national/international institutions, forums, conferences, or workshops including:

- *Cyber Security Challenges around the world”, 17th Int. Conference on the Digital Government Research, Shanghai, China, 2016.*
- *Cyber Security International Symposium in Seoul”, Seoul, Korea, 2016.*

- *The 24th Annual Conference on Pacific Basin Finance, Economic, Accounting, and Management*”, Taiwan, 2016.
- *Annual Conference for Chinese Public Safety Association*, Beijing, China, 2016.
- *International Computer Symposium (ICS 2014)*, Hosted by Tunghai University, TaiChung, Taiwan, 2014 (Keynote speaker).
- *Institute for Public Safety Research, Tsinghua University, Beijing, PR China, 2014* (Keynote speaker).
- *The 1st Annual Conference for Chinese Public Safety Association, Beijing, China, 2014* (Keynote speaker).
- *The International Conference on Higher Education 2014 (ICHE2014)*, Tel Aviv, Israel, 2014 (Keynote speaker).
- *From GPS and Virtual Globes to Spatial Computing-2020, Workshop sponsored by NSF and Computing Community Consortium, Washington, DC, 2012.*
- *IEEE International Conference on Intelligence and Security Informatics, Washington, DC, 2012* (Keynote speaker).
- *Social Media and Public Safety: A Conference in the Nationwide Series on Critical Infrastructure Sector Issues. InfraGard San Diego Members Alliance and the InfraGard National Members Alliance, San Diego, CA, 2012* (Keynote speaker).
- *Fayetteville State University’s Center for Defense and Homeland Security 1st Annual National Security Alumni Symposium, Fayetteville, NC., 2012*(Keynote Speaker).
- *dgo 2011: 12th Annual International Conference on Digital Government Research 2011*(Keynote speaker).
- *Department of Defense M&S Steering Committee Offsite Wargame, 2011*(Keynote speaker).
- *Industrial Control Systems Joint Working Group (ICSJWG) 2011 Spring Conference.*
- *OntologySummit2011 Symposium & Workshop, National Institute of Standards and Technology (NIST), 2011.*
- *National Cyber-physical Systems PI- Meeting, National Science Foundation, 2010.*
- *DIMACS Workshop: Algorithmic Decision Theory for the Smart Grid, Rutgers University, 2010* (Keynote speaker).
- *Thirty-sixth Nuclear Information Technology Strategic Leadership (NITSL) Workshop, 2010* (Keynote speaker).
- *6th Annual Cyber Security and Information Intelligence Research Workshop, Oak Ridge National Laboratory, 2010* (Keynote speaker).
- *SCADA Cyber Security Workshop, Univ. of Arizona, 2010* (Keynote speaker).
- *Health and Humanitarian Logistics, Georgia Institute of Technology, 2010* (Keynote speaker).
- *ACM/IEEE International Conference on Cyber-Physical Systems, CPS Week, Stockholm, Sweden, 2010.*
- *The Spring Simulation Multiconference (SpringSim'10), 2010* (Keynote speaker).
- *The SISO Spring Simulation Interoperability Workshop, 2010* (Keynote speaker).
- *Information, Technology, and Governance: A Grand Challenges Research Agenda, NSF, 2010.*
- *Taiwan National Science Council and National Tsing Hua University, Taiwan, 2009* (Keynote speaker).

- *5th Annual Cyber Security and Information Intelligence Research Workshop*, Oak Ridge National Laboratory, 2009 (Keynote speaker).
- *The 5th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing*, 2009 (Keynote speaker).
- *Public Security Conference*, The Hague, The Netherlands, 2009 (Keynote speaker).
- *Research & Industrial Collaboration Conference*, Northeastern University, 2009 (Keynote speaker).
- *The Public Security Innovation Center Seminar*, The Embassy of The Kingdom of The Netherlands, US, 2009 (Keynote speaker).
- *National Security Agency Research Transformation Office*, 2009.
- *Information Assurance Research and Education Workshop*, Arizona State University, 2009 (Keynote speaker).
- *NSF Workshop on Data Security* National Science Foundation, 2009 (Keynote speaker).
- *Power Grid Simulator Workshop*, Argonne National Laboratory, 2008 (Keynote speaker).
- *Secure Knowledge Management (SKM2008) Workshop*, University of Texas at Dallas, 2008 (Keynote speaker).
- *Systems Development Laboratory*, Hitachi, Ltd., Japan, 2007.
- *The ACS/IEEE International Conference on Computer Systems and Applications, AICCSA 2007*, Jordan, 2007 (Keynote speaker).
- *The first US-China International Workshop on Digital Government Research and Practice (IntDG 2006)*, Beijing, China. Sponsored by U.S. National Science Foundation, the Chinese Academy of Sciences, and the National Natural Science Foundation of China, 2006.
- *The Seventh World Congress on the Management of e-Business*, Halifax, Canada, 2006 (Keynote speaker).
- *ETRIC, International Conference on Emerging Trends in Information and Communication Security*, Germany 2006 (Keynote speaker).
- *Digital Library Colloquium Speaker Series, Carnegie Mellon School of Computer Science AND Lab of Education and Research on Security Assured Information Systems*, University of Pittsburgh, 2005.
- *IEEE Workshop Working Together: R&D Partnership in Homeland Security, the National Conference on Digital Government Research*, 2005.
- *Hungarian US R&D Workshop - Information Society Technology and Research Challenges*, Sponsored by NSF and ELTE Ithaka, Budapest, Hosted by Hungarian Ministry for Information & Telecommunications and Ministry of Education, Hungary, 2004.
- *The National Conference for Digital Government Research*, May 2002 (Featured Speaker), May 2002.
- *National Research Council's Workshop on Coping with Increasing Demands on Government Data Centers*, April 2002.
- *The IEEE/ARL/NASA Workshop on Information Assurance*, December 2001.
- *The International Symposium on Government and E-commerce Development*, Ningbo, China, April 2001 (Keynote speaker). Co-sponsored by the United Nations Department of Economic and Social Affairs, the Ningbo Municipality, the Chinese Academy of Science,

the Chinese Academy of Engineering, the Ministry of Information Industry of China, and Zhejiang University of China.

- *The Second European Conference on Research and Advanced Technology for Digital Libraries*, Crete, Greece, September 1998.
- *IEEE Engineering in Medicine and Biology Society, Information Technology Applications in Biomedicine (ITAB '98)*, Washington, D.C., May 1998 (Keynote speaker).
- *Lawrence Livermore National Laboratory, Livermore, California*, April 1998.
- *EUROSTAT (The Statistical Office of the European Union), "Statistical Data Protection"*, Lisbon, Portugal, March 1998 (Keynote speaker).
- *The 97 Korean Management Information Systems International Conference*, Seoul, Korea, December 1997 (Keynote speaker).
- C&C Research Laboratories, NEC USA, Inc., San Jose, California, November 1997.
- Baruch College, City University of New York, November 1997.
- Department of Computer Science, SUNY at Buffalo, April 1997.
- *The International Conference on the Digital Libraries and Information Services for the 21st Century (KOLISS DL'96)*, Seoul, Korea, September 1996 (Keynote speaker).
- Matsushita Information Technology Laboratory, Panasonic Technologies, Inc., Princeton, NJ. September 1996.
- *The Development and Practice of Law in the Age of the Internet*, Washington College of Law Centennial Week Symposium, Washington, D.C., April 1996.
- The Bilkent University-sponsored *Symposium on Environment, Space, and Communications*, Bilkent, Ankara, Turkey, February 1996 (Keynote speaker).
- The Computer Science and Industrial Engineering Departments, Ben-Gurion University in Beer-Sheva, Israel, February 1996.
- *2nd International Workshop on Next Generation Info. Technologies & Systems*, The Technion Institute, Israel, June 1995.
- American Association for Clinical Chemistry, April 1995.
- Center for Excellence in Space Data and Information Sciences, NASA, February 1994.
- University of Waterloo, December 1993.
- U.S. National Institute of Standards and Technology, December 1993.
- *International Conference on Information and Knowledge Management*, November 1993.
- Baruch College, City University of New-York, March 1993.
- New Jersey Institute of Technology, May 1992.

Awards

- "IEEE 2012 Research Achievement and Leadership Award in Intelligence and Security Informatics", 2012.
- "Honorable Mention for the 2010 Under-Secretary's Award for Science and Technology", US Department of Homeland Security, Science & Technology Directorate, 2010.
- Elected as a distinguished speaker (on Digital Libraries/Electronic Commerce) in the IEEE Computer Society's Distinguished Visitors Program (DVP), 1997-2000.
- Out-of-cycle salary adjustment in recognition for an unusual professional achievement: 1987, 1995, 2009-2010.

- FASIP Award (Salary increments awarded to faculty members demonstrated recent and continuing excellence based on one or more of the criteria of teaching, scholarship, and service) : 1981, 1989, 1990, 1991, 1994, 1996, 1998, 2002-2005, 2006-2007, 2009-2010.
- Dean Horace DePodwin Research Award: 1992.

Initiatives

- Co-founder of the Rutgers Institute for Data Science, Learning, and Applications (I-DSL), 2014.
- Co-founder of the Regional Drinking Water Safety and Security Consortium (RDWSSC). The following are among the Consortium members: Rutgers CIMIC, USEPA, USGS, and NJDEP, 2002.
- Co-founder and Director of the Meadowlands Environmental Research Institute (MERI), Rutgers University and the New Jersey Meadowlands Commission, 1998.
- Co-founder and Executive editor-in-chief of the International Journal of Digital Libraries, 1995
- Founder and director of the Rutgers Graduate Certificate Program in Electronic Commerce. Served as one of leading PIs on a European Union project to develop curriculum for MS in a Global Electronic Commerce project with participants from 12 leading business schools in Europe and in North America (see for example <http://www.research.ibm.com/iac/master-conference.html>), 1997-1999
- Co-founder and past-chair of the IEEE Computer Society Task Force on Digital Libraries, 1997
- Co-founder and program co-chair of the Forum on Research and Technology Advances in Digital Libraries (ADL).
- Founder and Director of the Center for Information Management, Integration and Connectivity (CIMIC), Rutgers University, 1996.
- Helped establish a Science Summer Camp to provide training to teachers and education for inner-city youths (elementary through high school levels) as part of the Rutgers CIMIC and MERI's service to the local community, 1996-2009.

Fellowships and Competitive Grants

- Senior Personnel, "NSF BD Spokes: PLANNING: NORTHEAST: Cross-organization Big Data Cyber Attack Awareness", National Science Foundation, (PI: John Yen), \$1000,000, 2016-2017.
- Principal Investigator, "Codec: Composition and Management of e-Government Processes in the Cloud of Public Services", National Academies of Sciences, Engineering, and Medicine, **\$187,905**, 2015-2018.
- Principal Investigator, "I/UCRC: Center for Hybrid Multicore Productivity Research (CHMPR) - Rutgers Site", National Science Foundation, \$300,000, 2016-2019.
- Principal Investigator, "Big Data Applications in Biomedical and Health Sciences", National Science Foundation, \$49,280, 2015-2016.
- Senior Personnel, "BD Hubs: NORTHEAST: The Northeast Big Data Innovation Hub", National Science Foundation, (PI: Kathy McKeown), \$1,250,000, 2015-2018
- Principal Investigator, Fellowship, Science & Technology Directorate, U.S. Department of Homeland Security, **\$940,472**, 2008-2013.

- Principal Investigator, “Secure Agency Interoperation for Effective Data Mining in Border Control and Homeland Security Applications”, National Science Foundation, **\$1,100,000**, 2003–2009.
- Principal Investigator, “A Study for Improving Business Intelligence Through the Use of Text Mining and Ontology”, Relevant Noise, Inc., **\$34,892**, 2005-2006.
- Principal Investigator, “The Meadowlands Environmental Research Institute”, The New Jersey Meadowlands Commission, **350,000**, 2005-2006.
- Principal Investigator, “Technology Transfer of Inter-agency e-Government Services and Their Transnational Feasibility Studies,” National Science Foundation, **\$99,898**, 2004–2005.
- Principal Investigator, “Municipal Technology Initiative,” New Jersey Meadowlands Commission, **\$150,000**, 2004–2005.
- Principal Investigator, “The Meadowlands Environmental Research Institute”, The New Jersey Meadowlands Commission (NJMC), **\$5,500,000**, 2002-2005.
- Principal Investigator, "E-Government: Human-Centered Systems for Business Services," National Science Foundation, **\$915,271**, 2000-2004.
- Co-Principal Investigator, “Spatially Integrated Coastal Permitting System,” National Oceanic and Atmospheric Administration (NOAA), **\$87,750**, 2002 – 2003 (PI: R. Ceberio).
- Principal Investigator, “Workshop on Advanced Technologies in Real-Time Monitoring and Modeling for Drinking Water Safety and security”, The US Environmental Protection Agency (USEPA) (**\$75,000**), 2002-2003.
- Principal Investigator, "Meadowlands Environmental Research Institute," Hackensack Meadowlands Development Commission, **\$3,000,000**, 1998-2002.
- Principal Investigator, "NASA Regional Validation Center," The Hackensack Meadowlands Development Commission, **\$600,000**, 1997-2001.
- Co-Principal Investigator, “Exploratory Research on Reconfigurable and Scalable Enterprise Planning Systems,” National Science Foundation, **\$111,977**, July 2000 - June 2001 (PI: M. Jafari).
- Principal Investigator, "Comparative study of Commercial- Off- The - Shelf client query tools to support the CCS Data Warehouse," Sponsored by the NASA Center of Excellence in Space Data and Information Sciences, **\$33,249**, 1998-1999.
- Co-Principal Investigator, "Trader In Distributed Computing Environment," Sponsored by National Security Agency, **\$50,000**, 1998 (PI: Y. Yesha).
- Principal Investigator, "Beyond Traditional Data Warehousing for EOSDIS," Sponsored by the The NASA Center of Excellence in Space Data and Information Sciences, **\$16,625**, 1998.
- Co-Principal Investigator, "Quality Data Management System," Sponsored by the Defense Logistics Agency/DoD, **\$347,450**, 1996-1998 (PI: T. Bochure).
- Principal Investigator, "Information Extraction Applications for GLIN," Sponsored by Center of Excellence in Space Data and Information Sciences, **\$30,027**, 1996-1997.
- Co-Principal Investigator, "Vendor Evaluation System," Sponsored by the Defense Logistics Agency/DoD, **\$130,000**, 1995-1996 (PI: T. Bochure).
- Principal Investigator, "Geodata Modeling and Query in Geographic Information Systems," Sponsored by The NASA Center of Excellence in Space Data and Information Sciences, **\$55,582**, 1995-1996.

- Principal Investigator, "Evaluation of Database Technologies for Information Networking Applications," Sponsored by Bellcore, **\$50,000**, 1995.
- Principal Investigator, "EDI/CIM Model and Demonstration," Sponsored by the Defense Logistics Agency, **\$283,340**, 1994-1995.
- Principal Investigator, "Computer Proficiency Assessment for Effective MIS Undergraduate Education," Sponsored by the Rutgers Dialogues Grants, **\$6,100**, 1994-1995.
- Co-Principal Investigator, "Implementation of Integrated Manufacturing - Phase II of the CRAMTD (Combat Rations Advanced Manufacturing Technology Demonstration) program," Sponsored by the Defense Logistics Agency, **\$800,000**, 1992-1995 (PI: T. Bochure).
- Co-Principal Investigator, "The CIM-System Informational Architecture and Database Design," Sponsored by the Defense Logistics Agency, **\$459,000**, 1990-1992.
- Co-Principal Investigator, The Beverly Johnson Research Funds: received a research grant **\$10,000** for the period 1988/89 (with J. Surkis).
- The Rutgers University Research Council: received a research grant for the period June 1987-May 1988.

Patents

- Patent#8601432, "Service-Based Processes Using Policy-Based Model-To-Model Conversion and Validation Techniques", Bornhoevd, Christof ; Paliwal, Aabhas; Adam, Nabil; Shafiq, Basit, December 3, 2013, United States Patent and Trademark Office.
- N. Adam, A. Paliwal, C. Bornhoevd, B. Shafiq, "Discovery of services Matching service Request", (12/14/2007). Issued, European Patent Office, Patent# 07018579.8 – 1225
- File #: 2006E00643, "Title: Web Service Discovery: Using Ontologies and Latent Semantic Indexing"
- File # : 0010-071001, "Title: Service-Based Processes Using Policy-Based Model-To-Model Conversion and Validation Techniques"

Publications

1. Edited Special Issues of Refereed Journals/Proceedings

- N. Adam, Y. Yesha (Editors), Special Section on *Digital Libraries*, *IEEE Transactions on Knowledge and Data Engineering*, August 1996.
- N. Adam, M. Halem, and Y. Yesha (Editors), *Proceedings of the 1996 Forum on Research and Technology Advances in Digital Libraries (ADL'96)*, Computer Society Press, May 1996.
- N. Adam, B. Bhargava, and Y. Yesha (Editors), *Proceedings of the Third International Conference on Information and Knowledge Management*, ACM Press, November 1994.
- N. Adam (Editor), a special issue on *Database Management Systems*, of *Journal of Management Information Systems*, Sept. 1987.
- Co-editor of a special issue on *Simulation*, of *Operations Research*, Nov.-Dec., 1983.
- N. Adam (Editor), a special issue on *Simulation*, of *Communications of the ACM*, Apr. 1981.

2. Books

- N. R. Adam, O. Dogramaci, A. Gangopadhyay and Y. Yesha, *Electronic Commerce: Technical, Business, and Legal Issues*, Prentice-Hall, July 1998.
- N. R. Adam and A. Gangopadhyay, *Database Issues in Geographic Information Systems*, Kluwer Academic Publishers, June 1997.
- N. R. Adam, B. Bhargava, M. Halem, and Y. Yesha (Editors), *Digital Libraries Research and Technology Advances Lecture Notes in Computer Science*, Springer-Verlag, October 1996.
- N. Adam and Y. Yesha (Editors), *Electronic Commerce: Current Research Issues and Applications, Lecture Notes in Computer Science*, Springer-Verlag, January 1996.
- N. Adam, B. Bhargava, and Y. Yesha (Editors), *Digital Libraries: Current Issues, Lecture Notes in Computer Science*, Springer-Verlag, May 1995.
- N. Adam and B. Bhargava (Editors), *Advanced Database Systems, Lecture Notes in Computer Science*, Springer-Verlag, December 1993.
- A. Dogramaci and N. Adam (Editors), *Managerial Issues in Productivity Analysis*, Kluwer Academic Publishers, June 1985.
- N. Adam and A. Dogramaci (Editors), *Productivity Analysis at the Organizational Level*, Martinus Nijhoff Publishing, 1981.
- A. Dogramaci and N. Adam (Editors), *Aggregate and Industry Level Productivity Analysis*, Martinus Nijhoff Publishing, 1981.
- N. Adam and A. Dogramaci (Editors), *Current Issues in Computer Simulation*, Academic Press, Inc., 1979.

3. Refereed Papers

- Debopriya Ghosh, Javier Cabrera, Tarek N. Adam, Petros Levounis, and Nabil R. Adam, “Comorbidity Patterns and its Impact on Health Outcomes: Two-way Clustering Analysis,” *IEEE Transactions on Big Data*, special issue on Healthcare, to appear.
- R. Wieder, B. Shafiq, and N. Adam, “African American Race is an Independent Risk Factor in Survival from Initially Diagnosed Localized Breast Cancer,” *Journal of Cancer*. 2016;7(12):1587-98.
- H. Irshad, B. Shafiq, J. Vaidya, M. A. Bashir, H. S. Asif, S. Ghayyur, S. Shamail, and N. Adam, “A Privacy-Sensitive Collaborative Approach to Business Process Development,” *E-Business and Telecommunications*, Communications in Computer and Information Science Series, Mohammad S. Obaidat and Pascal Lorenz (eds.), Springer, 2016.
- D. Ghosh, S. Chun, **B. Shafiq**, and N. Adam, “Big Data-based Smart City Platform: Real-Time Crime Analysis,” on Proceedings of the *17th International Digital Government Research Conference on Digital Government Research* (dg.o '16), Yushim Kim and Monica Liu (Eds.). June 2016.
- Hafiz Asif, Tanay Talukdar, Jaideep Vaidya, Basit Shafiq and Nabil Adam, “Collaborative Differentially Private Outlier detection for Categorical Data,” *Proceedings of the International Conference on Collaboration and Internet Computing (IEEE CIC2016)*, 2016.
- H. Irshad, B. Shafiq, J. Vaidya, M. A. Bashir, S. Shamail, and N. Adam. “Preserving Privacy in Collaborative Business Process Composition,” Proceedings of the *12th International Joint Conference on e-Business and Telecommunications (ICETE 2015) Security and Cryptography*, 2015 (**Best Paper Award**).
- S. Yuan, S. Chun, Y. Liu, H. Zhang, and N. Adam, “Agent Driving Behavior Modeling for Traffic Simulation and Emergency Decision Support,” *Proceedings of the 2015 Winter Simulation Conference (Invited Paper)* 2015.

- D. Lorenzi, S. Chun, J. Vaidya, V. Atluri, N. Adam, "PEER: A Framework for Public Engagement in Emergency Response," *International Journal of E-Planning Research*, 2015.
- D. Lorenzi, J. Vaidya, B. Shafiq, S. Chun, N. Vegesna, Z. Alzamil, N. Adam, S. werner, and V. Atluri, "Utilizing Social Media to Improve Local Government Responsiveness," *15th International Digital Government Research Conference (dg.o 2014)*.
- N. Adam, R. Stiles, A. Zimdars, R. Timmons, G. Stachnick, J. Merrick, R. Coop, V. Slavin, T. Kruglikov, J. Galmiche, and S. Mehrotra," Consequence Analysis of Complex Events on the Nation's Critical Infrastructure," *The Communications of The ACM*, June 2013
- D. Lorenzi, J. Vaidya, S. Chun, B. Shafiq, V. Naik, V. Atluri and N. Adam, "Community Based Emergency Response," *14th International Digital Government Research Conference (dg.o 2013)*.
- Nabil Adam, Basit Shafiq, and Robin Staffin, "Spatial Computing and Social Media in the Context of Disaster Management," *IEEE Intelligent Ssystems*, Dec. 2012.
- B. Shafiq, J. Vaidya, S. Chun, N. Badar, and N. Adam, "Secure Composition of Cascaded Web Services," *Proceedings of the 8th IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2012)*, 2012
- Andreas Tolk, Nabil R. Adam, Erdal Cayirci, Stefan Pickl, Randall Shumaker, and Joseph A. Sullivan, "Defense and Security Applications of M&S - Grand Challenges and Current Efforts," *Proceedings of the 2012 Winter Simulation Conference*, 2012
- Xiaoyun He, Jaideep Vaidya, Basit Shafiq, and Nabil Adam, "Privacy Preserving Maximum-Flow Computation in Distributed Graphs," *IEEE International Conference on Information Privacy, Security, Risk and Trust (PASSAT 2012)*, 2012.
- Danish Mehmood1, Basit Shafiq, Jaideep Vaidya, Yuan Hong, Nabil Adam, and Vijayalakshmi Atluri, "Privacy-Preserving Subgraph Discovery," *Data and Applications Security and Privacy (DBSEC 2012)*, 2012.
- X. He, J. Vaidya, B. Shafiq, N. Adam and V. Atluri, "Structure-aware graph anonymization," *Web Intelligence and Agent Systems* 10(2): 193-208, 2012.
- Karuna P Joshi, Tim Finin, Yelena Yesha, Anupam Joshi, Navid Golpayegani, and Nabil R. Adam, "A Policy-based approach to Smart Cloud Services," *Proceedings of the Service Research and Innovation Institute (SRII) Global Conference*, 2012.
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Topic: Correlation Analysis: from Computational Hardness to Practical Success, April 2011.
- Dr. Heechang Shin, Rutgers University
Topic: Ensuring Security and Privacy in a Personalized Mobile Environment, October 2010.
- Dr. Shri Samrat Mondal, Indian Institute of Technology Kharagpur
Topic: Security Analysis of Role Based Access Control Models with Temporal and Spatiotemporal Constraints, May 2010
- Dr. Qi Guo, Rutgers University
Topic: The Role Mining Problem: A Formal Approach, June 2010.
- Dr. Crystal J. Fitzpatrick, Rutgers University
Topic: An Investigation of the Emotional Outcome of Shame In Middle Adolescents, June 2009.
- Dr. Dong-Ho Kim, Rutgers University
Topic: A Learning-Based Model In Clickstream-based Collaborative Filtering, May 2005
- Dr. Wenhua Wu, University of Waterloo,

Topic: A Knowledge-Based System for the Integration of Computer Integrated Manufacturing Databases, December 1993.

- Dr. Fortune S. Mhlanga, Department of Computer Science, NJIT
Topic: D_Model and D_Algebra: A Data Model and Algebra for Office Documents, May 1993.
- Dr. Apostolos N. Burnetas, Rutgers University.
Topic: On Adaptive Estimation and Control for Markovian Decision Processes, July 1993.
- Dr. Chang Han Lee, Rutgers University.
Topic: Deterministic Models for Inventory Control Under Continuous Time-Varying Demand, October 1993.

Refereeing

NSF

IEEE Transactions on Knowledge & Data Engineering

IEEE Transactions on Software Engineering

Knowledge & Data Engineering Journal

Journal of Management Information Systems

Journal of Management Science

Journal of Operations Research

European Journal of Operational Research

Professional Activities (Partial List)

- Member of the Program Committee of the Tenth Conference on Business Information Systems (BIS 2007), 2007.
- Member of the Program Committee of the Intelligence and Security Informatics (ISI2007), 2007.
- Member of the Program Committee of the 2nd International Workshop “Dependability and Security in e-Government” (DeSeGov2007), 2007.
- Member of the Program Committee of the 2006 IEEE International Conference on Information Reuse and Integration, 2006
- Member of the Program Committee of the 4th International Conference on Service-Oriented Computing (ICOSC 2006), 2006.
- Member of the Program Committee of the 6th Conference on Next Generation Information Technologies and Systems (NGITS’2006), 2006.
- Member of the Program Committee of the Location-based Mobile Commerce Workshop (l-Commerce06), 2006.
- Member of the Program Committee of the 2nd International Symposium on Visual Computing (ISVC06), 2006.
- Member of the Program Committee of the 18th IEEE International Conference on Tools with Artificial Intelligence (ICTAI06), 2006.
- Member of the Program Committee of the ICSOC Workshop on Dynamic Web Processing (DWP 2005), 2005.
- Member of the Program Committee of the 14th International Workshop on Research Issues on Data Engineering, Web Services for E-Commerce and E-Government Applications, RIDE-WS-ECEG’2004.

- Member of the Program Committee of the Conference on Privacy in Statistical Databases (PSD' 2004), 2004.
- Member of the Program Committee of the Eighteenth IEEE Symposium on Mass Storage Systems and the Ninth NASA Goddard Conference on Mass Storage Systems and Technologies, 2001.
- Member of the Program Committee of the DEXA Electronic Commerce -Web 2000.
- Member of the Program Committee of the Information Technology Applications in Biomedicine–IEEE EMBS Third International Conference (ITAB 2000–ITIS 2000), 2000.
- Member of the Program Committee of the 15th IEEE Conference on Data Engineering (ICDE 99), 1999.
- Member of the Program Committee of the Third IEEE Meta-Data Conference, 1999.
- Member of the Program Committee of the First International Conference on Information and Computational Economics 1998.
- Member of the Program Committee of the Third International Conference on Cooperative Information Systems (CoopIS'98).
- Member of the Program Committee on Data Engineering and Information Super Highways, the IEEE 14th International Conference on Data Engineering, 1998.
- Member of the Program Committee of Eighth International Workshop on Research Issues in Data Engineering: Continuous-Media Databases and Applications (RIDE'98), February 1998.
- General chair of the 1997 IEEE International Conference on Advances in Digital Libraries (IEEE ADL'97), May 1997.
- Member of the Program Committee of the International Symposium on Research, Development & Practice in Digital Libraries: ISDL'97, Japan.
- Program chair of the 1996 Forum on Research and Technology Advances in Digital Libraries (ADL'96), May 1996.
- Member of the Program Committee on Data Engineering and Information Super Highways, the IEEE 12th International Conference on Data Engineering, 1996
- Member of the Program Committee on Multimedia: Full-Service Impact on Business, Education, and Home, SPIE-The International Society for Optical Engineering, October 23-24, 1995.
- Served on a two-member panel to conduct a site visit for the NSF CISE program at the Department of Computer Science at the University of North Carolina, Chapel Hill, April 1995.
- Working with the Law Library of Congress on developing a "Global Legal Information Network", 1995.
- Program Committee Member of the Conference on Computer Integrated Manufacturing in the Process Industries, May 1994.
- Program Committee Member of the International Conference on ER Approach, 1993.
- Member of the Program Committee on Object-Oriented Systems, the IEEE Ninth International Conference on Data Engineering, 1993.
- Co-Chairman of the Workshop on Current Issues in Databases and Applications, October 22-23, 1992, Rutgers University, Newark, New Jersey. Sponsored by Rutgers Graduate School of Management.

- Conference Committee Member of the 12th Annual International Conference on Information Systems, 1991.
- Vice-Chairman of the Conference on Current Issues in Productivity, 1985, 1987, 1989, and 1991, Rutgers University, Newark, New Jersey.
- Program Committee Member of the International Conference on Databases, Parallel Architectures, and their Applications, 1990.
- Co-Chairman of the Fourth Conference on Current Issues in Simulation, May 18-19, 1987, Rutgers University, Newark, New Jersey. Sponsored by the New York Chapter of the ACM, The Institute of Management Science and Rutgers Graduate School of Management.
- Chairman of the Special Interest Group on Simulation of the New York Chapter of the ACM, 1977-1987.
- Chairman of the Conference on Current Issues in Database Systems, May 27, 1986, Rutgers University, Newark, New Jersey. Sponsored by Rutgers Graduate School of Management.
- Vice-Chairman of the Current Issues in Productivity, November 30-December 2, 1982, Cornell University, Ithaca, New York.
- Co-Chairman of the Conference on Computer Simulation: A Research Focus, May 4-5, 1982, Rutgers University, New Jersey. Sponsored by the New York Chapter of the ACM, the Operations Research Society of America, and the Rutgers Business Research Center.
- Chairman of the Conference on Computers in Small Business, November 6-7, 1980, Rutgers University, Newark, New Jersey. Sponsored by Rutgers Business Research Center and the U.S. Small Business Administration.
- Chairman of the Conference on Computer Simulation, April 21-22, 1980, Columbia University, New York. Sponsored by the New York Chapter of the ACM.
- Vice-Chairman of the Conference on Current Issues in Productivity, April 18-20, 1979, Columbia University, New York.
- Chairman of the Conference on Simulation, May 3-5, 1978, Columbia University, New York, sponsored by the New York Chapter of the ACM.
- Invited to conduct several seminars on Systems Simulation as part of the Professional Development Seminars of the New York Chapter of the ACM.
- Project Manager of the Simulation Project of SHARE INC., 1976-77.
- Conducted a Systems Simulation and Languages Seminar as part of the Columbia University Computer Center Education Program for the University Community, March 1974.

Courses Taught

- Research Seminar in Computer Applications (Ph.D.).
- Applications of Database Systems (Ph.D.).
- Seminar in Object-Oriented Database Systems (Ph.D.)
- Statistical Aspects of Stochastic Simulation (Ph.D.).
- Planning Models in Operations Management (Ph.D.).
- Control Models in Operations Management (Ph.D.).
- Databases: Theory and Applications (Dept. of Comp. Science, New Brunswick).
- Database Systems (MBA).
- Computers and Information Systems (MBA).
- AI & Expert Systems: Concepts and Applications (MBA).

- Data Structures and Databases (MBA).
 - Seminar in Object-Oriented Systems: Concepts & Applications (MBA)
 - Database Processing (MBA).
 - Theory and Practice of Simulation (MBA).
 - Computer Technology (MBA).
 - Deterministic Optimization Models (MBA).
 - Operations Management (MBA).
- Developed the following Ph.D. courses: 198:680 Applications of Database Systems, 711:676 Statistical Aspects of Stochastic Simulation.

University and School Activities

- Appointed by the Provost to serve as the chairman of the Newark Campus Computer Planning Committee, 1983-Present. In addition, I was appointed by the Provost to serve as a member of that committee during the period 1978-83.
- Elected as a member of the University Senate, 2007-2010.
- Elected by the senate to serve on the Senate Executive Committee, 2007-2008.
- Elected by the Newark Faculty Council to serve on the nine-faculty university-wide President Advisory Council, 1996, 2001, 2004-2005.
- Elected by the FoM faculty to serve on the Newark Faculty Council, 1992-1994, 1994-1997, 1999-2002, 2003-2005. Served as the Chair in 2004.
- Appointed by the President to serve as a member of a university-wide committee on "Information Sciences and Related Fields," 1995 – 1996.
- Appointed by the Vice President for Computing to serve as a member of the University Computing and Information Policy Advisory Committee, 1993-1996.
- Appointed by the Provost to serve as a member of the Newark Campus Environment Committee, 1995.
- Appointed by the Vice President for Computing to serve as the chair of the search committee for the Director of the Newark Computing Services, 1994.
- Appointed by the Dean to serve on the GSM Computer Policy Committee, 1991-1994.
- Appointed by the Provost to serve on the Resources and Facilities Task Force as part of the Newark Business Education Reorganization efforts, 1992.
- Appointed by the Dean to serve on the Appointments and Promotions Committee, 1992.
- Appointed by the Dean to serve on the GSM Planning Committee, 1987-1989, 1992.
- Appointed by the Vice President for Information Services to serve on the university-wide "Academic Computing Advisory Committee," 1990-1992.
- Appointed by the Assoc. Vice President for Information Services to serve on the search committee for the Director of the University Centers for Computers and Information Services, 1990.
- Appointed by the Vice President for Research to serve on the university-wide "Supercomputer Faculty Support Committee," 1988-1989.
- Appointed by the Provost to serve as a member of the "Middle States Association Newark Campus Subcommittee on Instructional Resources and Equipment," 1986-1988.
- Appointed by the Dean to serve as a member of the GSM "Ph.D. Policy Committee," 1984-1988.

- Chaired a departmental committee for developing an MBA major in Computer and Information Systems, 1986-1987.
- Appointed by the Dean to serve as the chairman of the GSM "Research Resources Committee," 1986-1992. (In addition, I was repeatedly elected by GSM faculty to serve as a member of that committee during the period 1980-1986).